

En The D2X Firmware Update

Please note the following additions to the manual with version 2.00 firmware update for the D2X. Except where otherwise noted, all page numbers refer to the *Guide to Digital Photography with the D2X*.

Custom Setting d2: Maximum Number of Shots Taken in Continuous Shooting (Pages 44 and 194)

The maximum number of shots that can be taken in a single burst in continuous shooting mode has increased from 35 to 60. Note, however, that shooting will slow when the memory buffer is full (page 44). The following table lists the maximum number of shots that can be stored in the memory buffer with noise reduction off and sensitivity set to ISO 100 equivalent.

File type	High-speed crop: Off	High-speed crop: On
NEF (RAW)+JPEG*, TIFF (RGB)	16	28
NEF (RAW)	17	29
JPEG*	22	38

* Assumes **JPEG compression** is set to **Size priority** (page 47).

Sensitivity (ISO Equivalency; Pages 52–53)

The following sensitivity settings have been added between ISO 800 and **HI-1** (ISO 1600 equivalent):

Custom Setting b2 (ISO step value) set to 1/2 step (page 189)				Custom Setting b2 (ISO step value) set to 1/3 step (page 189)			
EV steps over ISO 800	ISO equivalent	Control panels	Viewfinder display	EV steps over ISO 800	ISO equivalent	Control panels	Viewfinder display
Approximately 1/2	1100	H 0.5	H0.5	Approximately 1/3	1000	H 0.3	H0.3
				Approximately 2/3	1250	H 0.7	H0.7

Settings of **HI-1** and **HI-2** now appear in the camera displays as **H 1** and **H 2** respectively. Any references to **HI-1** and **HI-2** in the camera manual apply to all settings over ISO 800, including those listed above.

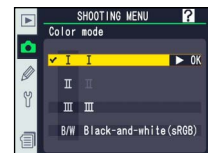
Tone Compensation (Page 68)

The tone compensation menu can now be used to choose from up to three user-defined curves. Tone curves can be downloaded to the camera using Camera Control Pro version 1.1.1 or Nikon Capture 4 version 4.4.2 (available separately).



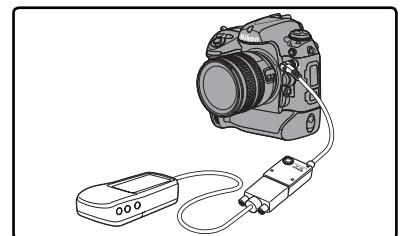
Color Mode (Page 70)

A **Black-and-white (sRGB)** option has been added to the color mode menu. This option, which is only available when **sRGB** is selected for **Color space**, can be used to create richly shaded black-and-white photographs of a wide variety of subjects, from portraits to landscapes.



Using a GPS Unit (Page 132)

The camera will now record compass headings supplied by GPS units with a digital compass. When using a GPS unit equipped with a compass, align the GPS device with the camera lens and keep it at least 20 cm (8 in.) from the camera body as shown at right.



The compass heading appears on the GPS data page of the photo information display as shown at right. In addition, latitude and longitude are now shown to three decimal places (page 138).

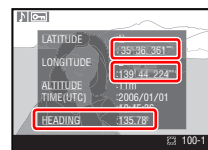


Photo Information (Page 137)

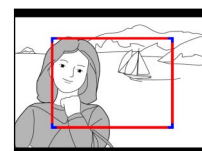
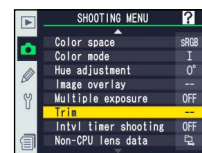
The third page of the shooting information display (Shooting Data 1) now lists information on vibration reduction (available with VR lenses only) and focus mode.



Trim (Page 166)

The shooting menu now includes a **Trim** option, which can be used to create cropped copies of existing photographs as described below.

- 1 Highlight **Trim** in the shooting menu and press the multi selector to the right.
- 2 Press the multi selector up, down, left, or right to highlight the desired image. To view the highlighted image full frame, press the **OK** button.
- 3 Press the center of the multi selector to select the highlighted image. The selected image will be displayed full frame.
- 4 Press the **OK** button and rotate the main command dial to choose the size of the crop. To change the position of the crop, press the multi selector up, down, left, or right while the **OK** button is pressed.
- 5 Press the **EXIT** button to create a cropped copy of the image, or press **REW** to exit to the shooting menu without creating a copy. Cropped copies are saved as FINE-quality JPEG images named by adding one to the current file number. Depending on the size of the crop, copies will be 2,540×1,920, 1,920×1,440, 1,280×960, 960×720, or 640×480 pixels in size. Cropped copies have the same white balance, shooting data, and image optimization settings as the original. Camera orientation (page 165) is not copied to the new file, with the result that all cropped copies are displayed in “wide” (landscape) orientation during playback. Any voice memos associated with the original are not copied.



Trimming

Trimming is available only with photographs taken with the D2X. The D2X can not be used to crop photographs taken with other cameras. If an NEF (RAW)+JPEG image is selected, only the NEF (RAW) image will be trimmed. Cropped copies can not be selected for trimming.

Custom Setting a4: Focus Tracking with Lock-On (Page 185)

This menu now contains the options shown below.

Option	Description
Long	If distance to subject changes abruptly, camera waits specified time before adjusting focus. Prevents camera refocusing when subject is briefly obscured by objects passing through frame.
Normal (default)	
Short	
Off	Camera immediately adjusts focus when distance to subject changes. Use when photographing a series of subjects at varying distances in quick succession.



Custom Setting b1: ISO Auto Control (Page 188)

This menu now contains the options shown below.



Option	Description
Off (default)	ISO sensitivity remains fixed at value selected by user, regardless of whether optimal exposure can be achieved at current exposure settings.
On	If optimal exposure can not be achieved at ISO sensitivity selected by user, ISO sensitivity is adjusted to compensate, to minimum approximately equivalent to ISO 100 and maximum selected using Max. sensitivity option. In exposure modes P and A , ISO sensitivity will be adjusted if photo would be overexposed at shutter speed of $\frac{1}{8,000}$ s or underexposed at value selected for Min. shutter speed . Otherwise camera adjusts ISO sensitivity when limits of exposure metering system are exceeded (mode S) or when optimum exposure can not be achieved at shutter speed and aperture selected by user (mode M). ISO sensitivity can not be set to values over 800 while this option is in effect.
Max. sensitivity	Menu shown at right is displayed. Press multi selector up or down to highlight desired ISO sensitivity and press to right to return to ISO auto menu.
Min. shutter speed	Menu shown at right is displayed. Press multi selector up or down to highlight desired shutter speed and press to right to return to ISO auto menu.

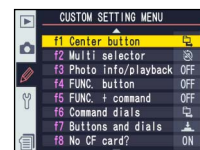


Custom Setting f4: Assign FUNC. Button (Page 205)

The functions formerly performed by Custom Setting f4 (**Assign FUNC. Button**) are now divided among two Custom Settings: Custom Setting f4 has been renamed **FUNC. button press** and controls the operation performed when the FUNC. button is pressed, and a new Custom Setting (Custom Setting f5: **FUNC. button + command dials**) has been added to determine the function performed if a command dial is rotated while the FUNC. button is pressed.

Custom Setting f4: FUNC. Button Press

This menu contains the following options:

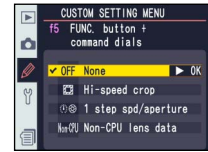


Option	Description
None (default)	Pressing FUNC. button has no effect.
FV lock	If attached Speedlight supports Creative Lighting System (CLS), flash value locks when FUNC. button is pressed. Press again to cancel FV lock.
Same as AE-L/AF-L	FUNC. button performs same function as AE-L/AF-L button.
Flash off	Flash will not fire in photos taken while FUNC. button is pressed.
Bracketing burst	While FUNC. button is pressed, all shots in exposure or flash bracketing program will be taken each time shutter-release button is pressed. In continuous high-speed and continuous low-speed modes, camera will repeat bracketing burst while shutter-release button is held down. If white-balance bracketing is selected, camera will take photos at up to 8fps (single or continuous high-speed mode) or 1–7 fps (continuous low-speed mode) and perform white balance bracketing on each frame.
Matrix metering	Matrix metering is activated while FUNC. button is pressed.
Center-weighted	Center-weighted metering is activated while FUNC. button is pressed.
Spot metering	Spot metering is activated while FUNC. button is pressed.

Custom Setting f5: FUNC. Button + Command Dials

This menu contains the following options:

Option	Description
None (default)	No operation is performed by rotating the command dials while the FUNC. button is pressed.
Hi-speed crop	FUNC. button and main command dial can be used to turn high-speed crop mode on and off (page 41). Hi-speed crop mode can not be changed after first shot in multiple exposures.
1 step spd/aperture	If FUNC. button is pressed while rotating command dials, changes to shutter speed (exposure modes S and M) and aperture (exposure modes A and M) are made in increments of 1 EV.
Non-CPU lens data	FUNC. button and command dials can be used to specify focal length and aperture of non-CPU lenses (page 128).



Recent Settings (Page 209)


The setup menu now includes a **Recent settings** option that can be used to lock or delete the items in the Recent Settings menu.

Option	Description
Lock menu	Select Yes to lock Recent Settings menu so that no items can be added or removed, No to unlock menu.
Delete recent settings	Select Yes to delete all items from Recent Settings menu (applies even if menu is locked), No to exit without deleting items.



The Recent Settings menu can be customized by deleting all recent settings using **Delete recent settings**, selecting up to eight options in the shooting and Custom Settings menus in the order in which you wish them to appear, and then locking the menu using the **Lock menu** option. If more than eight items are selected before the menu is locked, only the eight most recent items will be displayed.

Image Authentication (Page 209)

An **Image authentication** option has been added to the camera setup menu. Photographs taken when this option is on contain image authentication information, allowing alterations to the image to be detected using Nikon's optional Image Authentication software. Image authentication information can not be added after a picture is taken. Photographs taken with image authentication on are marked by a  icon on page 2 of the playback information display.



The image authentication menu contains the following options:

Option	Description
Off (default)	Image authentication information is not embedded in new photographs.
On	Image authentication information is embedded in new photographs.

Image Transfer

Modifications to color profiles or IPTC information made in PictureProject during transfer will be detected by Nikon's Image Authentication software. Turn auto embed options off when transferring photographs for use with Image Authentication. Image authentication information is not embedded in TIFF photographs recorded directly to a computer using Camera Control Pro version 1.1.1 or Nikon Capture 4 version 4.4.2 (available separately).

Trimming/Image Overlay

Image authentication information is not embedded in cropped copies (see "Trim" on page 2 of this guide) or in pictures created with image overlay (see page 117 of the camera manual).

Save/Load Settings (Page 209)

The setup menu now includes a **Save/load settings** option, which is only available when a memory card is inserted in the camera. Select **Save settings** to save all camera settings except the date and time (page 18) and monitor brightness (page 211) to the memory card. Saved settings can be restored by selecting **Load settings**.



Saved Settings

Settings are saved to a file named "NCSETUP0" on the camera memory card. Deleting or modifying this file will prevent the camera from loading saved settings.

Cleaning the Low-Pass Filter (Page 252)

An AC adapter is no longer required when cleaning the low-pass filter. The **Mirror lock-up** option in the camera setup menu can now be selected when a fully-charged battery is inserted in the camera. If the battery runs low when the mirror is raised, a beep will sound and the self-timer lamp will blink to warn that the shutter curtain will close and the mirror will lower in about two minutes. End cleaning or inspection immediately.

Use a Reliable Power Source

The camera shutter curtain is delicate and easily damaged. If the camera powers off while the mirror is raised, the shutter-curtain will close automatically. To prevent damage to the curtain, do not turn the camera off until inspection or cleaning is complete. Do not remove or disconnect the power source while the mirror is raised.